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1 Search 2: Searching with numbers

Rakesh Agrawal, Ramakrishnan Srikant

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(238.60 KB) Additional Information: full citation, abstract, references, citings, index terms

A large fraction of the useful web comprises of specification documents that largely consist of hattribute name, numeric valuei pairs embedded in text. Examples include product information, classified advertisements, resumes, etc. The approach taken in the past to search these documents by first establishing correspondences between values and their names has achieved limited success because of the difficulty of extracting this information from free text. We propose a new approach that does not r ...

2 Architecture of a metasearch engine that supports user information needs

Eric J. Glover, Steve Lawrence, William P. Birmingham, C. Lee Giles

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(858.64 KB) Additional Information: full citation, abstract, references, citings, index terms

When a query is submitted to a metasearch engine, decisions are made with respect to the underlying search engines to be used, what modifications will be made to the query, and how to score the results. These decisions are typically made by considering only the user's keyword query, neglecting the larger information need. Users with specific needs, such as "research papers" or "homepages," are not able to express these needs in a way that affects the decisions made b ...

3 A framework for modeling and evaluating automatic semantic reconciliation

Avigdor Gal, Ateret Anaby-Tavor, Alberto Trombetta, Danilo Montesi

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Full text available: pdf(472.75 KB) Additional Information: full citation, abstract

The introduction of the Semantic Web vision and the shift toward machine understandable Web resources has unearthed the importance of automatic semantic reconciliation. Consequently, new tools for automating the process were proposed. In this work we present a formal model of semantic reconciliation and analyze in a systematic manner the properties of the process outcome, primarily the inherent uncertainty of the matching process and how it reflects on the resulting mappings. An important featur ...

Keywords: Mapping, Ontology versioning, Semantic interoperability

4 Corpus Linguistics: Mining the web to create minority language corpora
Rayid Ghani, Rosie Jones, Dunja Mladenić
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The Web is a valuable source of language specific resources but the process of collecting, organizing and utilizing these resources is difficult. We describe CorpusBuilder, an approach for automatically generating Web-search queries for collecting documents in a minority language. It differs from pseudo-relevance feedback in that retrieved documents are labeled by an automatic language classifier as relevant or irrelevant, and this feedback is used to generate new queries. We experiment with var ...

5 A hybrid CBR-IR approach to legal information retrieval
Edwina L. Rissland, Jody J. Daniels
May 1995 **Proceedings of the 5th international conference on Artificial intelligence and law**

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

6 Exploiting redundancy in question answering
Charles L. A. Clarke, Gordon V. Cormack, Thomas R. Lynam
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(187.66 KB) Additional Information: full citation, abstract, references, citings, index terms

Our goal is to automatically answer brief factual questions of the form ``When was the Battle of Hastings?'' or ``Who wrote The Wind in the Willows?''. Since the answer to nearly any such question can now be found somewhere on the Web, the problem reduces to finding potential answers in large volumes of data and validating their accuracy. We apply a method for arbitrary passage retrieval to the first half of the problem and demonstrate that answer redundancy

7 Compressed inverted files with reduced decoding overheads
Anh Ngoc Vo, Alistair Moffat
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

8 VideoQ: an automated content based video search system using visual cues
Shih-Fu Chang, William Chen, Horace J. Meng, Hari Sundaram, Di Zhong
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(1.67 MB) Additional Information: full citation, references, citings, index terms

9 A multi-similarity algebra
S. Adali, P. Bonatti, M. L. Sapino, V. S. Subrahmanian
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

The need to automatically extract and classify the contents of multimedia data archives such as images, video, and text documents has led to significant work on similarity based retrieval of data. To date, most work in this area has focused on the creation of index

structures for similarity based retrieval. There is very little work on developing formalisms for querying multimedia databases that support similarity based computations and optimizing such queries, even though it is well known ...

10 Automatic categorization of case law

Paul Thompson

May 2001 **Proceedings of the 8th international conference on Artificial intelligence and law**

Full text available: pdf(84.81 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a series of automatic text categorization experiments with case law documents. Cases are categorized into 40 broad, high-level categories. These results are compared to an existing operational process using Boolean queries manually constructed by domain experts. In this categorization process recall is considered more important than precision. This paper investigates three algorithms that potentially could automate this categorization process: 1) a nearest neighbor-like a ...

Keywords: text categorization

11 Hierarchical constraint transformation using directed interval search for analog system synthesis

Nagu R. Dhanwada, Adrian Nunez-Aldana, Ranga Vemuri

January 1999 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(259.78 KB) Additional Information: full citation, citings, index terms

12 Less is more: eliminating index terms from subordinate clauses

Simon H. Corston-Oliver, William B. Dolan

June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**

Full text available: pdf(579.81 KB) Additional Information: full citation, abstract, references, citings

We perform a linguistic analysis of documents during indexing for information retrieval. By eliminating index terms that occur only in subordinate clauses, index size is reduced by approximately 30% without adversely affecting precision or recall. These results hold for two corpora: a sample of the world wide web and an electronic encyclopedia.

13 Evaluating database selection techniques: a testbed and experiment

James C. French, Allison L. Powell, Charles L. Viles, Travis Emmitt, Kevin J. Prey

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

14 Continuous speech recognition: An overview of the SPHINX-II speech recognition system

Xuedong Huang, Fileno Alleva, Mei-Yuh Hwang, Ronald Rosenfeld

March 1993 **Proceedings of the workshop on Human Language Technology HLT '93**

Full text available: pdf(682.18 KB) Additional Information: full citation, abstract, references

In the past year at Carnegie Mellon steady progress has been made in the area of acoustic and language modeling. The result has been a dramatic reduction in speech recognition errors in the SPHINX-II system. In this paper, we review SPHINX-II and summarize our recent efforts on improved speech recognition. Recently SPHINX-II achieved the lowest

error rate in the November 1992 DARPA evaluations. For 5000-word, speaker-independent, continuous, speech recognition, the error rate was reduced to 5%.

15 On the allocation of documents in multiprocessor information retrieval systems
Ophir Frieder, Hava Tova Siegelmann
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

16 Predictor-directed stream buffers
Timothy Sherwood, Suleyman Sair, Brad Calder
December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture**
Full text available: pdf(187.89 KB) ps(1.12 MB) Additional Information: full citation, references, citings, index terms
Publisher Site

17 Towards increased productivity of algorithm implementation
Jiazhen Cai, Robert Paige
December 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering**, Volume 18 Issue 5
Full text available: pdf(974.66 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper reports experimental results that support the feasibility of a new transformational approach developed by the authors for implementing complex algorithms correctly and efficiently. The class of algorithms amenable to our methods includes nonnumerical graph algorithms. Experiments were performed to measure how this approach affects productivity (in terms of the number of source lines in the implementation divided by manual programming time) and running times. Comparative benchmarks sho ...

18 Evaluating variable resolution displays with visual search: task performance and eye movements
Derrick Parkhurst, Eugenio Culurciello, Ernst Niebur
November 2000 **Proceedings of the symposium on Eye tracking research & applications**
Full text available: pdf(635.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Gaze-contingent variable resolution display techniques allocate computational resources for image generation preferentially to the area around the center of gaze where visual sensitivity to detail is the greatest. Although these techniques are computationally efficient, their behavioral consequences with realistic tasks and materials are not well understood. The behavior of human observers performing visual search of natural scenes using gaze-contingent variable resolution displays is examine ...

Keywords: eye movements, variable resolution displays, virtual reality, visual search

19 Classifying news stories using memory based reasoning
Brij Masand, Gordon Linoff, David Waltz
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(587.84 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe a method for classifying news stories using Memory Based Reasoning (MBR) a k-nearest neighbor method), that does not require manual topic definitions. Using an already coded training database of about 50,000 stories from the Dow Jones Press Release News Wire, and SEEKER [Stanfill] (a text retrieval system that supports relevance feedback) as the underlying match engine, codes are assigned to new, unseen stories with a recall of about 80% and precision of about 7 ...

20 Information retrieval 1: Query association for effective retrieval

Falk Scholer, Hugh E. Williams

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: pdf(151.13 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a novel technique for document summarisation which we call query association. Query association is based on the notion that a query that is highly similar to a document is a good descriptor of that document. For example, the user query "richmond football club" is likely to be a good summary of the content of a document that is ranked highly in response to the query. We describe this process of defining, maintaining, and presenting the relationship between a user query and the docume ...

Keywords: past queries, query association, relevance assessment, summarisation, web search

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21 Search 2: Evaluating strategies for similarity search on the web

Taher H. Haveliwala, Aristides Gionis, Dan Klein, Piotr Indyk

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(268.54 KB) Additional Information: full citation, abstract, references, citings, index terms

Finding pages on the Web that are similar to a query page (Related Pages) is an important component of modern search engines. A variety of strategies have been proposed for answering Related Pages queries, but comparative evaluation by user studies is expensive, especially when large strategy spaces must be searched (e.g., when tuning parameters). We present a technique for automatically evaluating strategies using Web hierarchies, such as Open Directory, in place of user feedback. We apply this ...

Keywords: evaluation, open directory project, related pages, search, similarity search

22 World Wide Web: Merging techniques for performing data fusion on the web

Theodora Tsikrika, Mounia Lalmas

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

Data fusion on the Web refers to the merging, into a unified single list, of the ranked document lists, which are retrieved in response to a user query by more than one Web search engine. It is performed by metasearch engines and their merging algorithms utilise the information present in the ranked lists of retrieved documents provided to them by the underlying search engines, such as the rank positions of the retrieved documents and their retrieval scores. In this paper, merging techniques are ...

Keywords: Dempster-Shafer's theory of evidence, information retrieval, web data fusion

23 Multiple search engines in database merging

Ellen M. Voorhees, Richard M. Tong

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

24 Comparing representations in Chinese information retrieval

K. L. Kwok
July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 31 Issue SI
Full text available: pdf(967.39 KB) Additional Information: full citation, references, citings, index terms

25 On the update of term weights in dynamic information retrieval systems
Charles L. Viles, James C. French
December 1995 **Proceedings of the fourth international conference on Information and knowledge management**
Full text available: pdf(834.31 KB) Additional Information: full citation, references, citings, index terms

26 Learning random walk models for inducing word dependency distributions
Kristina Toutanova, Christopher D. Manning, Andrew Y. Ng
July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**
Full text available: pdf(176.96 KB) Additional Information: full citation, abstract, references

Many NLP tasks rely on accurately estimating word dependency probabilities $P(\omega 1|\omega 2)$, where the words $w1$ and $w2$ have a particular relationship (such as verb-object). Because of the sparseness of counts of such dependencies, smoothing and the ability to use multiple sources of knowledge are important challenges. For example, if the probability $P(N|V)$ of noun N being the subject of verb V is high, and ...

27 A Tree Based Router Search Engine Architecture with Single Port Memories
Florin Baboescu, Dean M. Tullsen, Grigore Rosu, Sumeet Singh
June 2005 **Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**
Full text available: pdf(293.29 KB) Additional Information: full citation, abstract

Pipelined forwarding engines are used in core routers to meet speed demands. Tree-based searches are pipelined across a number of stages to achieve high throughput, but this results in unevenly distributed memory. To address this imbalance, conventional approaches use either complex dynamic memory allocation schemes or over-provision each of the pipeline stages. This paper describes the microarchitecture of a novel network search processor which provides both high execution throughput and balanc ...

28 Computer literacy: what students know and from whom they learned it
Mark E. Hoffman, David R. Vance
February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education**, Volume 37 Issue 1
Full text available: pdf(185.53 KB) Additional Information: full citation, abstract, references, index terms

Do new college students already know much of what has previously been taught in our computer literacy courses (assuming a functional definition of knowledge according to which students are proficient with personal computer and Internet applications)? We conducted a survey of incoming first-year students at Quinnipiac University to learn not only their skill level with a representative range of technology tasks, but also from whom they learned these tasks. Results provide a profile of students wh ...

Keywords: computer literacy, first-year students, from whom learned, skill level, taxonomy, technology tasks

29 Link Analysis: Topic-sensitive PageRank
Taher H. Haveliwala
May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(236.70 KB) Additional Information: full citation, abstract, references, citings, index terms

In the original PageRank algorithm for improving the ranking of search-query results, a single PageRank vector is computed, using the link structure of the Web, to capture the relative "importance" of Web pages, independent of any particular search query. To yield more accurate search results, we propose computing a *set* of PageRank vectors, biased using a set of representative topics, to capture more accurately the notion of importance with respect to a particular topic. By using these (p ...

Keywords: PageRank, link structure, personalized search, search, search in context, web graph

30 Data mining: A matrix density based algorithm to hierarchically co-cluster documents and words

Bhushan Mandhani, Sachindra Joshi, Krishna Kummamuru

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available: pdf(133.06 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper proposes an algorithm to hierarchically cluster documents. Each cluster is actually a cluster of documents and an associated cluster of words, thus a document-word co-cluster. Note that, the vector model for documents creates the document-word matrix, of which every co-cluster is a submatrix. One would intuitively expect a submatrix made up of high values to be a good document cluster, with the corresponding word cluster containing its most distinctive features. Our algorithm looks to ...

31 Pattern-based fault diagnosis using neural networks

W. E. Dietz, E. L. Kiech, M. Ali

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The detection and diagnosis of faults in real time are active areas of research in knowledge-based expert systems. Several methods of diagnosis have been applied to a variety of physical systems. Rule-based approaches have been applied successfully to some domains. However, encoding knowledge in rule bases raises many difficult knowledge acquisition issues; in addition, rule-based systems are often too slow to be effectively applied in a real-time environment. More advanced diagnostic syste ...

32 Authoritative sources in a hyperlinked environment

Jon M. Kleinberg

January 1998 **Proceedings of the ninth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(843.14 KB) Additional Information: full citation, references, citings, index terms

33 Toward semantic understanding: an approach based on information extraction ontologies

David W. Embley

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**

Full text available: pdf(281.84 KB) Additional Information: full citation, abstract, references

Information is ubiquitous, and we are flooded with more than we can process. Somehow, we must rely less on visual processing, point-and-click navigation, and manual decision making and more on computer sifting and organization of information and automated

negotiation and decision making. A resolution of these problems requires software with semantic understanding---a grand challenge of our time.More particularly, we must solve problems of automated interoperability, integration, and knowledge sh ...

Keywords: agent communication, data integration, high-precision classification, information extraction, ontology, ontology generation, schema mapping, semantic Web, semantics

34 QueryTracker: An Agent for Tracking Persistent Information Needs

Gabriel Somlo, Adele E. Howe

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**

Full text available: pdf(383.94 KB) Additional Information: full citation, abstract, index terms

Most people have long term information interests. Current Web search engines satisfy immediate information needs. Specific sites support tracking of long term interests. We present an agent that satisfies a gap in these services. QueryTracker implements a search engine interface with state. A userýs query and a learned alternative is automatically submitted daily to a search engine. A profile of the userýs interest is constructed based on user relevance feedback. Daily search results are dissemi ...

35 Using clustering and visualization for refining the results of a WWW image search engine

Sougata Mukherjea, Kyoji Hirata, Yoshinori Hara

November 1998 **Proceedings of the 1998 workshop on New paradigms in information visualization and manipulation**

Full text available: pdf(1.61 MB) Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, image search engine, query result visualization

36 HPC.NET - are CLI-based Virtual Machines Suitable for High Performance Computing?

Werner Vogels

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Full text available: pdf(163.35 KB) Additional Information: full citation, abstract

The Common Language Infrastructure is a new, standardized virtual machine that is likely to become popular on several platforms. In this paper we review whether this technology has any future in the high-performance computing community, for example by targeting the same application space as the Java-Grande Forum. We review the technology by benchmarking three implementations of the CLI and compare those with the results on Java virtual machines.

37 Usage analysis: Semantic similarity between search engine queries using temporal correlation

Steve Chien, Nicole Immorlica

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(238.57 KB) Additional Information: full citation, abstract, references, index terms

We investigate the idea of finding semantically related search engine queries based on their *temporal correlation*; in other words, we infer that two queries are related if their popularities behave similarly over time. To this end, we first define a new measure of the temporal correlation of two queries based on the correlation coefficient of their frequency functions. We then conduct extensive experiments using our measure on two massive query streams from the MSN search engine, revealin ...

Keywords: query stream analysis, search engines, semantic similarity among queries

38 Automatic text indexing using complex identifiers
Gerald Salton
January 2000 **Proceedings of the ACM conference on Document processing systems**
Full text available: pdf(569.46 KB) Additional Information: full citation, references, citings, index terms

39 Document analysis: Digital capture for automated scanner workflows
Steven J. Simske, Scott C. Baggs
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, index terms

The use of scanners and other capture devices to incorporate film- and paper-based materials into digital workflows is an important part of "digital convergence", or the bringing of paper-based and electronic documents together into the same electronic workflows. The diversity of captured information-from text and mixed-type documents to photos, negatives, slides and transparencies-requires a combination of document analysis techniques to perform, automatically, the segmentation, classificati ...

Keywords: classification, negatives, photos, scanning, segmentation, slides, user interface, zoning

40 Documentation testing
Salvatore Mamone
March 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 2
Full text available: pdf(522.01 KB) Additional Information: full citation, abstract, index terms

One definition of documentation is 'Any written or pictorial information describing, defining, specifying, reporting, or certifying activities, requirements, procedures, or results.' (1). Documentation is as important to a product's success as the product itself. If the documentation is poor, non-existent, or wrong, it reflects on the quality of the product and the vendor.At the Bell Atlantic Systems Integration & Testing Center documentation testing is an important function that receive ...

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